

| | | |
|---|-------------------------------------|----------------------------|
| FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO. ASMEX.72CP2D3CD | APPLICATION NO. Unknown |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY) | APPLICANT Halpin et al. | |
| | FILING DATE Herewith | GROUP Unknown |

| U.S. PATENT DOCUMENTS | | | | | | | |
|-----------------------|------------------|-----------------|----------|-----------------|-------|----------|---------------------------------|
| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE (IF APPROPRIATE) |
| N | 1. | 3,627,590 | 12/14/71 | Mammel | | | |
| N | 2. | 4,261,762 | 4/14/81 | King | | | |
| N | 3. | 4,313,783 | 2/2/82 | Davies et al. | | | |
| N | 4. | 4,403,567 | 9/13/83 | DaCosta et al. | | | |
| N | 5. | 4,457,359 | 7/3/84 | Holden | | | |
| N | 6. | 4,458,746 | 7/10/84 | Holden et al. | | | |
| N | 7. | 4,508,161 | 04/02/85 | Holden | | | |
| N | 8. | 4,512,391 | 04/23/85 | Harra | | | |
| N | 9. | 4,522,697 | 06/11/85 | Dimock et al. | | | |
| N | 10. | 4,523,985 | 06/18/85 | Dimock | | | |
| N | 11. | 4,527,620 | 07/09/85 | Pedersen et al. | | | |
| N | 12. | 4,535,834 | 08/20/85 | Turner | | | |
| N | 13. | 4,535,835 | 08/20/85 | Holden | | | |
| N | 14. | 4,537,244 | 08/27/85 | Holden | | | |
| N | 15. | 4,542,298 | 09/17/85 | Holden | | | |
| N | 16. | 4,565,601 | 01/21/86 | Kakehi et al. | | | |
| N | 17. | 4,567,938 | 02/04/86 | Turner | | | |
| N | 18. | 4,603,466 | 08/05/86 | Morley | | | |
| N | 19. | 4,654,509 | 03/31/87 | Robinson et al. | | | |
| N | 20. | 4,709,655 | 12/01/87 | Van Mastrigt | | | |
| N | 21. | 4,724,621 | 02/16/88 | Hobson et al. | | | |
| N | 22. | 4,789,771 | 12/6/88 | Robinson et al. | | | |
| N | 22 23 | 4,790,262 | 12/13/88 | Nakayama et al. | | | |
| N | 23 24 | 4,860,687 | 08/29/89 | Frijlink | | | |
| N | 24 25 | 4,911,812 | 03/27/90 | Kudo et al. | | | |

| | |
|--|------------------------|
| EXAMINER <i>R</i> | DATE CONSIDERED 7-8-05 |
| *EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT. | |

| | | |
|--|-------------------------------------|----------------------------|
| FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY) | ATTY. DOCKET NO. ASMEX.72CP2D3CD | APPLICATION NO. Unknown |
| | APPLICANT Halpin et al. | |
| | FILING DATE Herewith | GROUP Unknown |

| U.S. PATENT DOCUMENTS | | | | | | | |
|-----------------------|-------------------|-----------------|----------|----------------------|-------|----------|---------------------------------|
| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE (IF APPROPRIATE) |
| ✓ | 25. 26 | 4,923,584 | 05/08/90 | Bramhall, Jr. et al. | | | |
| ✓ | 26. | 4,949,783 | 08/21/90 | Lakios et al. | | | |
| ✓ | 27. | 4,958,061 | 09/18/90 | Wakabayashi et al. | | | |
| ✓ | 28. | 5,027,746 | 07/02/91 | Frijlink | | | |
| ✓ | 29. | 5,033,407 | 07/23/91 | Mizuno et al. | | | |
| ✓ | 30. | 5,033,538 | 07/23/91 | Wagner et al. | | | |
| ✓ | 31. | 5,090,900 | 02/25/92 | Rudolf et al. | | | |
| ✓ | 32. | 5,096,536 | 03/17/92 | Cathey, Jr. | | | |
| ✓ | 33. | 5,133,284 | 07/28/92 | Thomas et al. | | | |
| ✓ | 34. | 5,148,714 | 9/22/92 | McDiarmid | | | |
| ✓ | 35. | 5,155,062 | 10/13/92 | Coleman | | | |
| ✓ | 36. | 5,156,820 | 10/20/92 | Wong et al. | | | |
| ✓ | 37. | 5,160,544 | 11/03/92 | Garg et al. | | | |
| ✓ | 38. | 5,180,000 | 01/19/93 | Wagner et al. | | | |
| ✓ | 39. | 5,199,483 | 04/06/93 | Bahng | | | |
| ✓ | 40. | 5,215,619 | 06/01/93 | Cheng et al. | | | |
| ✓ | 41. | 5,221,403 | 06/22/93 | Nozawa et al. | | | |
| ✓ | 42. | 5,230,741 | 07/27/93 | van de Ven et al. | | | |
| ✓ | 43. | 5,238,499 | 08/24/93 | van de Ven et al. | | | |
| ✓ | 44. | 5,248,370 | 09/28/93 | Tsui et al. | | | |
| ✓ | 45. | 5,267,607 | 12/07/93 | Wada | | | |
| ✓ | 46. | 5,287,914 | 02/22/94 | Hughes | | | |
| ✓ | 47. | 5,290,381 | 03/01/94 | Nozawa et al. | | | |
| ✓ | 48. | 5,292,393 | 03/08/94 | Maydan et al. | | | |
| ✓ | 49. 50 | 5,298,465 | 03/29/94 | Levy | | | |

| | |
|--|------------------------|
| EXAMINER <i>R</i> | DATE CONSIDERED 7-8-05 |
| *EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT. | |

| | | | |
|---|--|-------------------------------------|----------------------------|
| FORM PTO-1449 | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO. ASMEX.72CP2D3CD | APPLICATION NO. Unknown |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY) | | APPLICANT Halpin et al. | |
| | | FILING DATE Herewith | GROUP Unknown |

| U.S. PATENT DOCUMENTS | | | | | | | |
|-----------------------|-----|-----------------|----------|-----------------|-------|----------|---------------------------------|
| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE (IF APPROPRIATE) |
| R | 50 | 51 5,308,645 | 05/03/94 | Zachman et al. | | | |
| R | 51. | 5,318,634 | 06/07/94 | deBoer et al. | | | |
| R | 52. | 5,320,982 | 06/14/94 | Tsubone et al. | | | |
| R | 53. | 5,322,565 | 06/21/94 | Zachman et al. | | | |
| R | 54. | 5,332,442 | 07/26/94 | Kubodera et al. | | | |
| R | 55. | 5,343,012 | 08/30/94 | Hardy et al. | | | |
| R | 56. | 5,343,938 | 09/06/94 | Schmidt | | | |
| R | 57. | 5,350,479 | 09/27/94 | Collins et al. | | | |
| R | 58. | 5,352,294 | 10/04/94 | White et al. | | | |
| R | 59. | 5,354,382 | 10/11/94 | Sung et al. | | | |
| R | 60. | 5,356,476 | 10/18/94 | Foster et al. | | | |
| R | 61. | 5,370,739 | 12/06/94 | Foster et al. | | | |
| R | 62. | 5,382,311 | 01/17/95 | Ishikawa et al. | | | |
| R | 63. | 5,383,971 | 01/24/95 | Selbrede | | | |
| R | 64. | 5,387,289 | 02/07/95 | Schmitz et al. | | | |
| R | 65. | 5,393,349 | 02/28/95 | Ohkase | | | |
| R | 66. | 5,403,401 | 04/04/95 | Haafkens et al. | | | |
| R | 67. | 5,445,677 | 08/29/95 | Kawata et al. | | | |
| R | 68. | 5,446,824 | 08/29/95 | Moslehi | | | |
| R | 69. | 5,456,757 | 10/10/95 | Aruga et al. | | | |
| R | 70. | 5,458,687 | 10/17/95 | Shichida et al. | | | |
| R | 71. | 5,462,603 | 10/31/95 | Murakami | | | |
| R | 72. | 5,467,220 | 11/14/95 | Xu | | | |
| R | 73. | 5,484,011 | 1/16/96 | Tepman et al. | | | |
| R | 74 | 15 5,522,131 | 06/04/96 | Steger | | | |

| | |
|--|-------------------------------|
| EXAMINER <u>Ra</u> | DATE CONSIDERED <u>7-8-05</u> |
| *EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT. | |

| | | | |
|---|--|-------------------------------------|----------------------------|
| FORM PTO-1449 | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO. ASMEX.72CP203CD | APPLICATION NO. Unknown |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY) | | APPLICANT Halpin et al. | |
| | | FILING DATE Herewith | GROUP Unknown |

| U.S. PATENT DOCUMENTS | | | | | | | |
|-----------------------|--------|-----------------|----------|------------------|-------|----------|---------------------------------|
| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE (IF APPROPRIATE) |
| N | 75. 76 | 5,645,646 | 7/8/97 | Beinglass et al. | | | |
| N | 76. | 5,656,093 | 8/1997 | Burkhart et al. | | | |
| N | 77. | 5,685,906 | 11/11/97 | Dietze et al. | | | |
| N | 78. | 5,738,165 | 4/1998 | Imai | | | |
| N | 79. | 6,053,982 | 04/25/00 | Halpin et al. | | | |
| N | 80. | 6,113,702 | 09/05/00 | Halpin et al. | | | |
| N | 81. | 6,203,622 | 03/20/01 | Halpin et al. | | | |
| N | 82. | 6,343,183 | 1/2002 | Halpin et al. | | | |
| N | 83. | 6,454,865 | 09/2002 | Goodman et al. | | | |
| N | 84. | 6,454,866 | 09/24/02 | Halpin et al. | | | |
| N | 85. 86 | 6,491,757 | 12/10/02 | Halpin et al. | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | | | |
|--------------------------|-----|-----------------|----------|---|-------|----------|-------------|----|
| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
| | | | | | | | YES | NO |
| N | 86. | GB 2181458A | | United Kingdom NOT AVAILABLE | | | X | |
| N | 87. | JP 62020308 | 1/28/87 | JP | | | | |
| N | 88. | JP 63084017 | 4/14/88 | JP | | | | |
| N | 89. | JP 63285925 | 11/22/88 | JP | | | | |
| N | 90. | EP 0 445 596 | 2/21/91 | EPO | | | | |
| N | 91. | 0 448 346 A1 | 9/25/91 | Europe | | | | |
| N | 92. | 0452779A2 | 10/23/91 | Europe | | | | |
| N | 93. | 0 592 017 A2 | 4/13/94 | Europe | | | | |
| N | 94. | 0 651 424 A2 | 5/3/95 | Europe | | | | |
| N | 95. | 0657918A2 | 6/14/95 | Europe | | | | |

W:\DOCS\TZC\TZC-1063.DOC
081803

| | |
|--|------------------------|
| EXAMINER <i>R</i> | DATE CONSIDERED 7-8-05 |
| *EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT. | |